

(c) Action Plan report

The Office of Science and Technology Policy, in conjunction with the National Critical Materials Council, shall submit a report detailing the Superconductivity Action Plan to the Committee on Science, Space, and Technology of the House of Representatives, and to the Committees on Energy and Natural Resources, and Commerce, Science, and Transportation of the Senate, within 9 months after November 19, 1988.

(d) Update reports

The Office of Science and Technology Policy, with the assistance of the National Critical Materials Council as specified in the National Critical Materials Act of 1984 (30 U.S.C. 1801 et seq.), shall prepare an annual report setting forth and evaluating the progress of the Superconductivity Action Plan. This report shall include a description of the amount of funds expended in the previous year by all Federal departments and agencies involved with superconductivity. This report shall be submitted with the President's annual budget request to the Committee on Science, Space, and Technology of the House of Representatives, and to the Committees on Energy and Natural Resources, and Commerce, Science, and Transportation of the Senate.

(Pub. L. 100-697, § 3, Nov. 19, 1988, 102 Stat. 4614.)

REFERENCES IN TEXT

The National Critical Materials Act of 1984, referred to in subsec. (d), is title II of Pub. L. 98-373, July 31, 1984, 98 Stat. 1248, as amended, which is classified generally to chapter 30 (§ 1801 et seq.) of Title 30, Mineral Lands and Mining. For complete classification of this Act to the Code, see Short Title note set out under section 1801 of Title 30 and Tables.

§ 5203. Department of Energy

The Secretary of Energy shall conduct a program in superconductivity research and development. Within 180 days after November 19, 1988, and for the two succeeding years thereafter, the Secretary shall submit annual reports on the implementation of technology transfer activities under the Stevenson-Wydler Technology Innovation Act of 1980 [15 U.S.C. 3701 et seq.] and related legislation with respect to superconductivity research and development to the Committee on Science, Space, and Technology of the House of Representatives and to the Committee on Energy and Natural Resources of the Senate. Such report shall include recommendations for improvements in the technology transfer between government and industry, and in the management of property developed or made at the National Laboratories.

(Pub. L. 100-697, § 4, Nov. 19, 1988, 102 Stat. 4615.)

REFERENCES IN TEXT

The Stevenson-Wydler Technology Innovation Act of 1980, referred to in text, is Pub. L. 96-480, Oct. 21, 1980, 94 Stat. 2311, as amended, which is classified generally to chapter 63 (§ 3701 et seq.) of this title. For complete classification of this Act to the Code, see Short Title note set out under section 3701 of this title and Tables.

§ 5204. National Institute of Standards and Technology

In pursuance of the goals of this chapter, the National Institute of Standards and Technology

shall promote fundamental research and materials standards to accelerate the use and application of the new superconducting materials, and shall utilize the Superconductivity Center Focusing on Electronic Applications at the National Institute of Standards and Technology in Boulder, Colorado.

(Pub. L. 100-697, § 5, Nov. 19, 1988, 102 Stat. 4615.)

§ 5205. National Science Foundation

The National Science Foundation shall promote fundamental research in pursuance of the goals of this chapter.

(Pub. L. 100-697, § 6, Nov. 19, 1988, 102 Stat. 4615.)

§ 5206. National Aeronautics and Space Administration

The National Aeronautics and Space Administration shall utilize existing programs in technology transfer, aeronautics and space technology, and space commercialization to promote the commercial applications of high-temperature superconductors, including applications relating to thin film technology, communications technology, sensors, space power, and propulsion.

(Pub. L. 100-697, § 7, Nov. 19, 1988, 102 Stat. 4615.)

§ 5207. Department of Defense**(a) Focus of research**

In conformance with the Superconductivity Action Plan, the Secretary of Defense, in the superconductivity research and development activities of the Department of Defense, shall give emphasis to fundamental research, materials processing, and applications of new superconducting materials.

(b) Additional activities

In conducting research under subsection (a), the Secretary of Defense shall—

(1) systematically define the engineering parameters for high-temperature superconducting materials; and

(2) conduct the necessary development, engineering, and operational prototype testing considered appropriate to the overall mission of the Department of Defense. Such operational prototype testing shall, where appropriate, utilize criteria developed by the Defense Advanced Research Projects Agency.

(c) Defense Advanced Research Projects Agency

The Director of the Defense Advanced Research Projects Agency shall, in conformance with the Superconductivity Action Plan, conduct activities to—

(1) augment, as appropriate, basic and applied superconductivity research conducted in other Federal agencies and industry; and

(2) develop criteria for operational prototype testing within the Department of Defense.

(Pub. L. 100-697, § 8, Nov. 19, 1988, 102 Stat. 4615.)

§ 5208. International cooperation

The President, as part of the Superconductivity Action Plan, shall establish a program of international cooperation in the conduct of fun-

damental and basic research on superconducting materials. Such program of international cooperation shall include the exchange of basic information and data, as well as the development of international standards for the use and application of superconducting materials.

(Pub. L. 100-697, §9, Nov. 19, 1988, 102 Stat. 4616.)

§ 5209. Technology transfer

(a) Promotion

In pursuance of the goals of this chapter, all Federal departments and agencies shall conduct technology transfer activities as appropriate to the overall mission of each department or agency to—

(1) complement basic superconductivity research by promoting the rapid development of manufacturing and processing technologies necessary for the commercialization of high-temperature superconductors; and

(2) promote collaborative arrangements and consortia of industry (which shall include small business) in order to lower the barriers to deployment of advanced high-temperature superconductor technology; such consortia to also include, as appropriate, universities and independent research organizations.

(b) Impediments to commercialization

The Director of the Office of Science and Technology Policy, in collaboration with the Secretary of Commerce and the Secretary of Energy, shall identify those Federal policies and regulations which impede the ability of the private sector to undertake long-term investment programs to commercialize superconductivity applications.

(Pub. L. 100-697, §10, Nov. 19, 1988, 102 Stat. 4616.)

CHAPTER 79—METAL CASTING COMPETITIVENESS RESEARCH PROGRAM

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§ 5301. Findings

The Congress finds that—

(1) metal casting is an important process for manufacturing many items imported into or exported from the United States;

(2) the encouragement and maintenance of a technically advanced United States metal casting industry is essential to the competitiveness of many American industries;

(3) maintaining a viable metal casting industry is vital to the national security and economic well being of the United States;

(4) the promotion of technology competitiveness and energy efficiency in the United States metal casting industry by the Federal Government is necessary to maintain a viable metal casting industry;

(5) many metal casting companies lack the resources to conduct metal casting research

alone, placing them at a serious competitive disadvantage;

(6) the support of university-based research in metal casting is important in promoting technology development and providing industry with qualified engineers; and

(7) by combining the resources of the Federal Government, universities, industry, and private organizations, to conduct research and development activities, substantial technological benefits will result to the metal casting industry.

(Pub. L. 101-425, §2, Oct. 15, 1990, 104 Stat. 915.)

SHORT TITLE

Pub. L. 101-425, §1, Oct. 15, 1990, 104 Stat. 915, provided that: "This Act [enacting this chapter] may be cited as the 'Department of Energy Metal Casting Competitiveness Research Act of 1990'."

§ 5302. Definitions

As used in this chapter, the term—

(1) "applicant" means:

(A) an educational institution;

(B) a consortium of educational institutions;

(C) a consortium of an educational institution or educational institutions with one or more of the following: Government-owned laboratories, private research organizations, nonprofit institutions, or private firms;

that is located in a region where the metal casting industry is concentrated;

(2) "census region" means one of the four census regions (Northeast, South, Midwest, and West) that are designated as census regions by the Bureau of the Census as of October 15, 1990;

(3) "Department" means the Department of Energy;

(4) "educational institution" means a degree granting institution of at least a baccalaureate level;

(5) "non-Federal source" means the United States metal casting industry, related industries, industry-related associations, individuals, organizations, universities, State agencies, or other entities supporting the metal casting industry;

(6) "metal casting industry" or "industry" means the industries identified by codes numbered 3321, 3322, 3324, 3325, 3363, 3364, 3365, 3366, and 3369, in the Standard Industrial Classification manual¹ published by the Office of Management and Budget in 1987;

(7) "Secretary" means the Secretary of Energy.

(Pub. L. 101-425, §3, Oct. 15, 1990, 104 Stat. 915.)

§ 5303. Establishment of program

The Secretary, acting in accordance with authority provided in the Federal Non-Nuclear Research and Development Act of 1974 (42 U.S.C. 5901 et seq.), except as otherwise provided in this chapter, shall establish a Metal Casting Competitiveness Research Program (hereafter in this chapter referred to as the "Program") for the

¹ So in original. Probably should be capitalized.